

# Recombinant Rat Low Density Lipoprotein Receptor-Related Protein Associated Protein 1, His-tagged

Cat. No. Lrpap1-1252R Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	RecombinantRat Lrpap1 is a single, non-glycosylated polypeptide chain and contains 6xHis tag and 1xC-myc.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	Lrpap1 isinvolved with trafficking of certain members of the LDL receptor familyincluding LRP1 and LRP2. It is a glycoprotein that binds to thealpha-2-macroglobulin receptor, as well as to other members of the low densitylipoprotein receptor family. It acts to inhibit the binding of all knowligands for these receptors, and may prevent receptor aggregation anddegradation in the endoplasmic reticulum, thereby acting as a molecuarchaperone. It may be under the regulatory control of calmodulin, since it isable to bind calmodulin and be phosphorylated by calmodulin-dependent kinasell.
<b>Form</b>	RecombinantLrpap1, at aconcentration of 1 mg/ml, was lyophilized from a sterile solution containingTBS, pH 7.5 + 0.1% BSA + 0.09% NaN3. Precaution: Sodium azide is a poisonousand hazardous substance which should be handled by trained staff only.
<b>Molecular Weight</b>	38.862 kDa
<b>Purity</b>	> 95.0% asdetermined by RP-HPLC and SDS-PAGE analyses.

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<b>Endotoxin Level</b>	Less than 0.1 ng/μg (1 EU/μg) of Rat Lrpap1.
<b>Reconstitution</b>	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 μg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.
<b>Storage</b>	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	Lrpap1

## GENE INFORMATION

<b>Gene Name</b>	Lrpap1 low density lipoprotein receptor-related protein associated protein 1 [ <a href="#">Rattus norvegicus</a> ]
<b>Synonyms</b>	Lrpap1; low density lipoprotein receptor-related protein associated protein 1; alpha-2-macroglobulin receptor-associated protein; RAP; alpha-2-MRAP; gp330-binding 45 kDa protein; low density lipoprotein receptor-related protein-associated protein 1
<b>Gene ID</b>	<a href="#">116565</a>
<b>mRNA Refseq</b>	<a href="#">NM_001169113</a>
<b>Protein Refseq</b>	<a href="#">NP_001162584</a>
<b>UniProt ID</b>	<a href="#">Q99068</a>

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**Chromosome  
Location**

14q21

**Function**

heparinbinding; lipase binding; unfolded protein binding; low-density lipoprotein particle receptor binding; asialoglycoprotein receptor activity; receptor antagonist activity; very-low-density lipoprotein particle receptor binding

**PDB rendering  
based on 1lre.** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA